

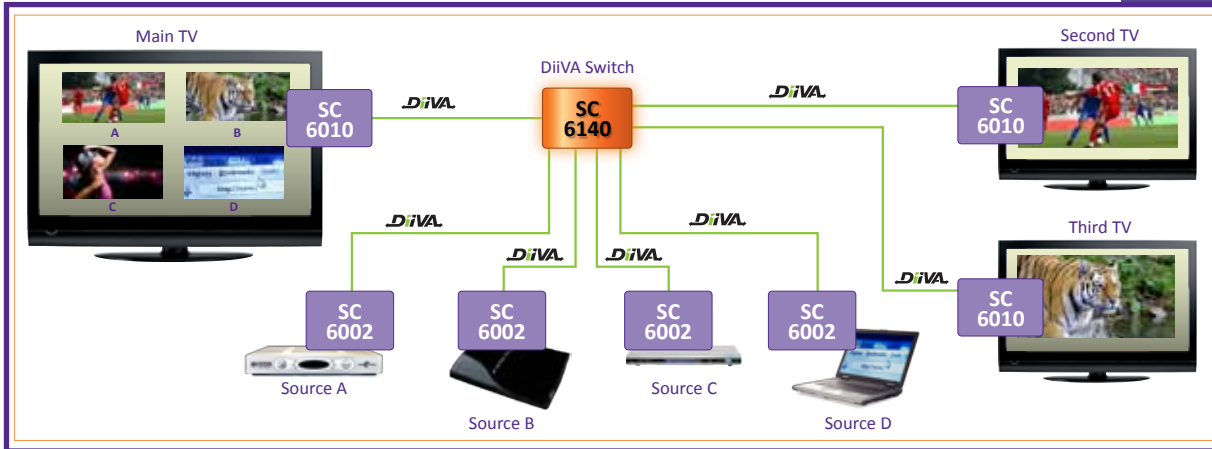
SC6140™ | 4 Input + 3 Output DiiVA™ Matrix Switch

Product Brief

Synerchip™

The SC6140™ is the world's first native DiiVA™ Switch with four DiiVA receiver ports and three DiiVA transmitter ports. All DiiVA ports are compliant with the DiiVA 1.1a specification. Using the SC6140, uncompressed video can be switched from any video input port to any video output port. Hybrid Link data packets can be routed from any port—to any port.

The SC6140 can accept Ethernet data through an Ethernet RMII interface to route IP packets to any Ethernet port within a DiiVA network. The SC6140 can output high-quality, multi-channel audio through its S/PDIF or I2S audio output pins making it an ideal solution for AV receivers.



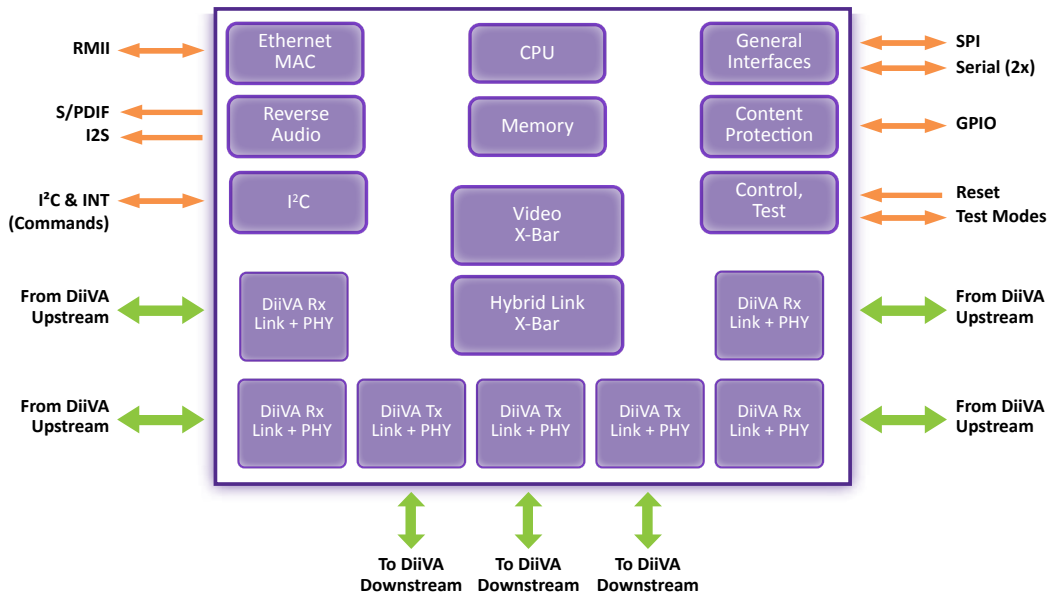
Features

- 4 DiiVA receiver (upstream) ports which support up to 13.5 Gbps per port for video
- 3 DiiVA transmitter (downstream) ports which support up to 13.5 Gbps per port for video
- Compliant with DiiVA 1.1a specification
- Single Ethernet RMII port compatible to RMII Specification
- Supports S/PDIF and I2S audio output with master clock
- I²C interface for command sub-channel
- Supports cascading of switches for higher port count systems
- Supports DiiVA Control Layer (DCL) for communication with external application processors
- Programmable / adaptive equalizer
- 1.8V & 3.3V power supply
- Available in 176-pin aQFN package (12.0mm x 12.0mm)

Applications

- AV Receivers
- Stand-Alone DiiVA Switches
- Wallplates
- Multimedia Router / Switches

DiiVA Matrix Switch Block Diagram



For more information, contact ask@synerchip.com

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